

WEST Search History for Application 10783153

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Query	DB	Op.	Plur.	Thes.	
(252/390,392,401,403;507/240,241,242;422/7,9,12,16;508/255;585/255).ccls.	PGPB, USPT, USOC	ADJ	YES		05
(585/15,899;560/115,179;562/553,574;564/152,158).ccls.	PGPB, USPT, USOC	ADJ	YES		05
((252/390,392,401,403;507/240,241,242;422/7,9,12,16;508/255;585/255).ccls.) or ((585/15,899;560/115,179;562/553,574;564/152,158).ccls.)	PGPB, USPT, USOC	ADJ	YES		05
pentapropylenesuccinic anhydride	PGPB, USPT, USOC	ADJ	YES		05
pentapropylene succinic anhydride	PGPB, USPT, USOC	ADJ	YES		05
penta propylenesuccinic anhydride	PGPB, USPT, USOC	ADJ	YES		05
pentapropylenesuccinicanhydride	PGPB, USPT, USOC	ADJ	YES		05
polyisobutenylsuccinic anhydride	PGPB, USPT, USOC	ADJ	YES		05
polyisobutenyl succinic anhydride	PGPB, USPT, USOC	ADJ	YES		05
poly isobutenyl succinic anhydride	PGPB, USPT, USOC	ADJ	YES		05
poly isobutenylsuccinic anhydride	PGPB, USPT, USOC	ADJ	YES		05
tetrapropylenesuccinic anhydride	PGPB, USPT, USOC	ADJ	YES		05

tetrapropylene succinic anhydride	PGPB, USPT, USOC	ADJ	YES		05-
tetra-propylene succinic anhydride	PGPB, USPT, USOC	ADJ	YES		05-
tetra-propylenesuccinic anhydride	PGPB, USPT, USOC	ADJ	YES		05-
(pentapropylenesuccinic anhydride) or (polyisobutenylsuccinic anhydride) or (polyisobutenyl succinic anhydride) or (poly isobutenyl succinic anhydride) or (poly isobutenylsuccinic anhydride) or (tetrapropylenesuccinic anhydride) or (tetrapropylene succinic anhydride)	PGPB, USPT, USOC	ADJ	YES		05-
dibutylaminoethanol	PGPB, USPT, USOC	ADJ	YES		05-
dibutyl aminoethanol	PGPB, USPT, USOC	ADJ	YES		05-
dibutylamino ethanol	PGPB, USPT, USOC	ADJ	YES		05-
di-butylamino ethanol	PGPB, USPT, USOC	ADJ	YES		05-
DBAE	PGPB, USPT, USOC	ADJ	YES		05-
(dibutylaminoethanol) or (dibutyl aminoethanol) or (dibutylamino ethanol) or (di-butylamino ethanol) or (DBAE)	PGPB, USPT, USOC	ADJ	YES		05-
(pentapropylenesuccinic anhydride or polyisobutenylsuccinic anhydride or polyisobutenyl succinic anhydride or poly isobutenyl succinic anhydride or poly isobutenylsuccinic anhydride or tetrapropylenesuccinic anhydride or tetrapropylene succinic anhydride) same (dibutylaminoethanol or dibutyl aminoethanol or dibutylamino ethanol or di-butylamino ethanol or DBAE)	PGPB, USPT, USOC	ADJ	YES		05-
((252/390,392,401,403;507/240,241,242;422/7,9,12,16;508/255;585/255).ccls. or (585/15,899;560/115,179;562/553,574;564/152,158).ccls.) and (pentapropylenesuccinic anhydride or polyisobutenylsuccinic anhydride or polyisobutenyl succinic anhydride or poly isobutenyl succinic anhydride or poly isobutenylsuccinic anhydride or tetrapropylenesuccinic anhydride or tetrapropylene succinic anhydride same dibutylaminoethanol or dibutyl aminoethanol or dibutylamino ethanol or di-butylamino ethanol or DBAE)	PGPB, USPT, USOC	ADJ	YES		05-

alkylenediamines	PGPB, USPT, USOC	ADJ	YES		05-
dialkylaminoalkyleneamines	PGPB, USPT, USOC	ADJ	YES		05-
dialkylaminoalkylenamines	PGPB, USPT, USOC	ADJ	YES		05-
dibutylaminopropylamine	PGPB, USPT, USOC	ADJ	YES		05-
dibutylaminopropyl amine	PGPB, USPT, USOC	ADJ	YES		05-
dibutyl aminopropylamine	PGPB, USPT, USOC	ADJ	YES		05-
diethylaminopropylamine	PGPB, USPT, USOC	ADJ	YES		05-
diethylaminopropyl amine	PGPB, USPT, USOC	ADJ	YES		05-
diethyl aminopropyl amine	PGPB, USPT, USOC	ADJ	YES		05-
diethyl aminopropylamine	PGPB, USPT, USOC	ADJ	YES		05-
dimethyl aminopropylamine	PGPB, USPT, USOC	ADJ	YES		05-
dimethylaminopropylamine	PGPB, USPT, USOC	ADJ	YES		05-
dimethylaminobutylamine	PGPB, USPT, USOC	ADJ	YES		05-
dimethylaminohexylamine	PGPB, USPT, USOC	ADJ	YES		05-

dibutylaminoethylamine	PGPB, USPT, USOC	ADJ	YES		05-
dialkylaminoalkylamine	PGPB, USPT, USOC	ADJ	YES		05-
(dialkylaminoalkylenamines) or (dialkylaminoalkylenamines) or (dibutylaminopropylamine) or (dibutylaminopropyl amine) or (dibutyl aminopropylamine) or (diethylaminopropylamine) or (diethylaminopropyl amine) or (diethyl aminopropyl amine) or (diethyl aminopropylamine) or (dimethyl aminopropylamine)	PGPB, USPT, USOC	ADJ	YES		05-
(dimethylaminopropylamine) or (dimethylaminobutylamine) or (dimethylaminohexylamine) or (dibutylaminoethylamine) or (dialkylaminoalkylamine) or (dialkylaminoalkylenamines or dialkylaminoalkylenamines or dibutylaminopropylamine or dibutylaminopropyl amine or dibutyl aminopropylamine or diethylaminopropylamine or diethylaminopropyl amine or diethyl aminopropyl amine or diethyl aminopropylamine or dimethyl aminopropylamine)	PGPB, USPT, USOC	ADJ	YES		05-
(pentapropylenesuccinic anhydride or polyisobutenylsuccinic anhydride or polyisobutenyl succinic anhydride or poly isobutenyl succinic anhydride or poly isobutenylsuccinic anhydride or tetrapropylenesuccinic anhydride or tetrapropylene succinic anhydride) same (dimethylaminopropylamine or dimethylaminobutylamine or dimethylaminohexylamine or dibutylaminoethylamine or dialkylaminoalkylamine or dialkylaminoalkylenamines or dialkylaminoalkylenamines or dibutylaminopropylamine or dibutylaminopropyl amine or dibutyl aminopropylamine or diethylaminopropylamine or diethylaminopropyl amine or diethyl aminopropyl amine or diethyl aminopropylamine or dimethyl aminopropylamine)	PGPB, USPT, USOC	ADJ	YES		05-
(pentapropylenesuccinic anhydride or polyisobutenylsuccinic anhydride or polyisobutenyl succinic anhydride or poly isobutenyl succinic anhydride or poly isobutenylsuccinic anhydride or tetrapropylenesuccinic anhydride or tetrapropylene succinic anhydride same dimethylaminopropylamine or dimethylaminobutylamine or dimethylaminohexylamine or dibutylaminoethylamine or dialkylaminoalkylamine or dialkylaminoalkylenamines or dialkylaminoalkylenamines or dibutylaminopropylamine or dibutylaminopropyl amine or dibutyl aminopropylamine or diethylaminopropylamine or diethylaminopropyl amine or diethyl aminopropyl amine or diethyl aminopropylamine or dimethyl aminopropylamine) not (pentapropylenesuccinic anhydride or polyisobutenylsuccinic anhydride or polyisobutenyl succinic anhydride or poly isobutenyl succinic anhydride or tetrapropylenesuccinic anhydride or tetrapropylene succinic anhydride same dibutylaminoethanol or dibutyl aminoethanol or dibutylamino ethanol or di-butylamino ethanol or DBAE)	PGPB, USPT, USOC	ADJ	YES		05-
((252/390,392,401,403;507/240,241,242;422/7,9,12,16;508/255;585/255).ccls.	PGPB,	ADJ	YES		05-

or (585/15,899;560/115,179;562/553,574;564/152,158).ccls.) and (pentapropylenesuccinic anhydride or polyisobutenylsuccinic anhydride or polyisobutenyl succinic anhydride or poly isobutenyl succinic anhydride or poly isobutenylsuccinic anhydride or tetrapropylenesuccinic anhydride or tetrapropylene succinic anhydride same dimethylaminopropylamine or dimethylaminobutylamine or dimethylaminohexylamine or dibutylaminoethylamine or dialkylaminoalkylamine or dialkylaminoalkylenamines or dialkylaminoalkylenamines or dibutylaminopropylamine or dibutylaminopropyl amine or dibutyl aminopropylamine or diethylaminopropylamine or diethylaminopropyl amine or diethyl aminopropyl amine or diethyl aminopropylamine or dimethyl aminopropylamine not pentapropylenesuccinic anhydride or polyisobutenylsuccinic anhydride or polyisobutenyl succinic anhydride or poly isobutenyl succinic anhydride or tetrapropylenesuccinic anhydride or tetrapropylene succinic anhydride same dibutylaminoethanol or dibutyl aminoethanol or dibutylamino ethanol or di-butylamino ethanol or DBAE)	USPT, USOC				
alkylating (agent or compound)	PGPB, USPT, USOC	ADJ	YES		05
(methyl or ethyl or propyl or isopropyl or butyl) (chloride or bromide)	PGPB, USPT, USOC	ADJ	YES		05
(methyl or ethyl or propyl or isopropyl or butyl) (iodide)	PGPB, USPT, USOC	ADJ	YES		05
(dimethyl or diethyl or dipropyl or diisopropyl or dibutyl) sulfate	PGPB, USPT, USOC	ADJ	YES		05
(alkylating (agent or compound)) or ((methyl or ethyl or propyl or isopropyl or butyl) (chloride or bromide)) or ((methyl or ethyl or propyl or isopropyl or butyl) (iodide)) or ((dimethyl or diethyl or dipropyl or diisopropyl or dibutyl) sulfate)	PGPB, USPT, USOC	ADJ	YES		05
(pentapropylenesuccinic anhydride or polyisobutenylsuccinic anhydride or polyisobutenyl succinic anhydride or poly isobutenyl succinic anhydride or poly isobutenylsuccinic anhydride or tetrapropylenesuccinic anhydride or tetrapropylene succinic anhydride same dimethylaminopropylamine or dimethylaminobutylamine or dimethylaminohexylamine or dibutylaminoethylamine or dialkylaminoalkylamine or dialkylaminoalkylenamines or dialkylaminoalkylenamines or dibutylaminopropylamine or dibutylaminopropyl amine or dibutyl aminopropylamine or diethylaminopropylamine or diethylaminopropyl amine or diethyl aminopropyl amine or diethyl aminopropylamine or dimethyl aminopropylamine not pentapropylenesuccinic anhydride or polyisobutenylsuccinic anhydride or polyisobutenyl succinic anhydride or poly isobutenyl succinic anhydride or poly isobutenylsuccinic anhydride or	PGPB, USPT, USOC	ADJ	YES		05

tetrapropylenesuccinic anhydride or tetrapropylene succinic anhydride same dibutylaminoethanol or dibutyl aminoethanol or dibutylamino ethanol or di-butylamino ethanol or DBAE) and (alkylating (agent or compound) or (methyl or ethyl or propyl or isopropyl or butyl) (chloride or bromide) or (methyl or ethyl or propyl or isopropyl or butyl) (iodide) or (dimethyl or diethyl or dipropyl or diisopropyl or dibutyl) sulfate)					
quaternized or quat\$	PGPB, USPT, USOC	ADJ	YES		05
(pentapropylenesuccinic anhydride or polyisobutenylsuccinic anhydride or polyisobutenyl succinic anhydride or poly isobutenyl succinic anhydride or poly isobutenylsuccinic anhydride or tetrapropylenesuccinic anhydride or tetrapropylene succinic anhydride same dimethylaminopropylamine or dimethylaminobutylamine or dimethylaminoethylamine or dibutylaminoethylamine or dialkylaminoalkylamine or dialkylaminoalkylenamines or dialkylaminoalkylenamines or dibutylaminopropylamine or dibutylaminopropyl amine or dibutyl aminopropylamine or diethylaminopropylamine or diethylaminopropyl amine or diethyl aminopropyl amine or diethyl aminopropylamine or dimethyl aminopropylamine not pentapropylenesuccinic anhydride or polyisobutenylsuccinic anhydride or polyisobutenyl succinic anhydride or poly isobutenylsuccinic anhydride or tetrapropylenesuccinic anhydride or tetrapropylene succinic anhydride same dibutylaminoethanol or dibutyl aminoethanol or dibutylamino ethanol or di-butylamino ethanol or DBAE) and (quaternized or quat\$)	PGPB, USPT, USOC	ADJ	YES		05
dahlmann-uwe.in.	PGPB, USPT, USOC	ADJ	YES		05
feustel-michael.in.	PGPB, USPT, USOC	ADJ	YES		05
(dahlmann-uwe.in.) or (feustel-michael.in.)	PGPB, USPT, USOC	ADJ	YES		05
(corrosion or hydrate) inhibitors	PGPB, USPT, USOC	ADJ	YES		05
(corrosion or hydrate) adj2 inhibitors	PGPB, USPT, USOC	ADJ	YES		05
anticorrosion\$	PGPB, USPT, USOC	ADJ	YES		05
anti-corrosion\$	PGPB,	ADJ	YES		05

	USPT, USOC				
((corrosion or hydrate) adj2 inhibitors) or (anticorrosion\$) or (anti-corrosion\$)	PGPB, USPT, USOC	ADJ	YES		05-
(dahlmann-uwe.in. or feustel-michael.in.) and ((corrosion or hydrate) adj2 inhibitors or anticorrosion\$ or anti-corrosion\$)	PGPB, USPT, USOC	ADJ	YES		05-
(pentapropylenesuccinic anhydride or polyisobutenylsuccinic anhydride or polyisobutenyl succinic anhydride or poly isobutenyl succinic anhydride or poly isobutenylsuccinic anhydride or tetrapropylenesuccinic anhydride or tetrapropylene succinic anhydride) and (dahlmann-uwe.in. or feustel-michael.in. and (corrosion or hydrate) adj2 inhibitors or anticorrosion\$ or anti-corrosion\$)	PGPB, USPT, USOC	ADJ	YES		05-
(pentapropylenesuccinic anhydride or polyisobutenylsuccinic anhydride or polyisobutenyl succinic anhydride or poly isobutenyl succinic anhydride or poly isobutenylsuccinic anhydride or tetrapropylenesuccinic anhydride or tetrapropylene succinic anhydride and dahlmann-uwe.in. or feustel-michael.in. and (corrosion or hydrate) adj2 inhibitors or anticorrosion\$) not (pentapropylenesuccinic anhydride or polyisobutenylsuccinic anhydride or polyisobutenyl succinic anhydride or poly isobutenyl succinic anhydride or poly isobutenylsuccinic anhydride or tetrapropylenesuccinic anhydride or tetrapropylene succinic anhydride same dibutylaminoethanol or dibutyl aminoethanol or dibutylamino ethanol or di-butylamino ethanol or DBAE)	PGPB, USPT, USOC	ADJ	YES		05-
((pentapropylenesuccinic anhydride or polyisobutenylsuccinic anhydride or polyisobutenyl succinic anhydride or poly isobutenyl succinic anhydride or poly isobutenylsuccinic anhydride or tetrapropylenesuccinic anhydride or tetrapropylene succinic anhydride) and ((dibutylaminoethanol or dibutyl aminoethanol or dibutylamino ethanol or di-butylamino ethanol or DBAE) or (dimethylaminopropylamine or dimethylaminobutylamine or dimethylaminohexylamine or dibutylaminoethylamine or dialkylaminoalkylamine or dialkylaminoalkyleneamines or dialkylaminoalkylenamines or dibutylaminopropylamine or dibutylaminopropyl amine or dibutyl aminopropylamine or diethylaminopropylamine or diethylaminopropyl amine or diethyl aminopropyl amine or diethyl aminopropylamine or dimethyl aminopropylamine)) and (quaternized or quat\$)).clm.	PGPB, USPT, USOC	ADJ	YES		05-
((pentapropylenesuccinic anhydride or polyisobutenylsuccinic anhydride or polyisobutenyl succinic anhydride or poly isobutenyl succinic anhydride or poly isobutenylsuccinic anhydride or tetrapropylenesuccinic anhydride or tetrapropylene succinic anhydride) and ((dibutylaminoethanol or dibutyl aminoethanol or dibutylamino ethanol or di-butylamino ethanol or DBAE) or (dimethylaminopropylamine or dimethylaminobutylamine or dimethylaminohexylamine or dibutylaminoethylamine or dialkylaminoalkylamine or dialkylaminoalkyleneamines or dialkylaminoalkylenamines or dibutylaminopropylamine or	PGPB, USPT, USOC	ADJ	YES		05-

dibutylaminopropyl amine or dibutyl aminopropylamine or diethylaminopropylamine or diethylaminopropyl amine or diethyl aminopropyl amine or diethyl aminopropylamine or dimethyl aminopropylamine)) and ((corrosion or hydrate) adj2 inhibitors)).clm.					
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